

**BY ORDER OF THE CHIEF,
NATIONAL GUARD BUREAU**



MANPOWER STANDARD 22C1SO

1 DECEMBER 2004

Manpower Standard

SORTIE SUPPORT, DOCKS EC-130E (RIVET RIDER)

COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

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This Air National Guard Manpower Standard (ANGMS) quantifies the manpower required to accomplish the tasks described in the process oriented description (POD) for varying levels of workload in the Sortie Support, Docks EC-130E (Rivet Rider). This ANGMS applies to the Sortie Support, Docks EC-130E, Rivet Rider mission only, at the 193rd SOW, PA. This standard applies to peacetime operations only. The Air National Guard (ANG) is the authority for the approval and publication of ANG Manpower Standards. Air Force (AF) and ANG directives contain policy and procedural guidance for the operation of the Rivet Rider function. This standard was developed in accordance with AF Instruction (AFI) 38-201, *Determining Manpower Requirements*, and AF Manual (AFMAN) 38-208, Volume 1, *Air Force Management Engineering Program (MEP) - Processes*, and AFMAN 38-208, Volume 2, *Air Force Management Engineering Program (MEP) - Quantification Tools*. Send comments and suggested improvements on AF IMT 847, *Recommendation for Change of Publication*, through channels, to ANG, Management Engineering Branch (ANG/XPME/Operating Location TN [OLTN]), 106 Briscoe Drive, McGhee Tyson ANG Base TN 37777-6283.

1. STANDARD DATA:

- 1.1. Approval Date. 1 December 2004.
- 1.2. Man-hour Data Source. Operational Audit method (historical record and technical estimate techniques).
- 1.3. Standard Man-hour Equation. $Y = 141.7 + 188.2X$.
- 1.4. Workload Factor:
 - 1.4.1. Title. A Primary Aircraft Inventory.
 - 1.4.2. Definition. The number of primary aircraft inventory.
 - 1.4.3. Source. USAF Program Document (PD), Volume II maintained by ANG/XPPI.

1.4.4. Points of Contact:

1.4.4.1. Functional: Lt Col Robert Hoback, ANG/LGY.

1.4.4.2. Manpower: Mr. Steve Griffith, Chief, ANG/XPME, Management Engineering Branch.

2. APPLICATION INSTRUCTIONS:

2.1. Step 1. Man-hour Equation. Apply the man-hour equation in paragraph 1.3., to determine required man-hours.

2.2. Step 2. Man-hour Availability Factor (MAF). Divide the resulting man-hours by the appropriate MAF times the overload factor.

2.3. Step 3. Upper and Lower Extrapolation Limits:

2.3.1. $Y_U = 1249.82$.

2.3.2. $Y_L = 749.82$.

2.4. Step 4. Air Force Specialty Codes (AFSC) Requirement. Use the Manpower Table attachment 3 to determine required AFSCs.

3. STATEMENT OF CONDITIONS: The conditions listed below had no affect on the development of this standard: minimum response rates, minimum manpower levels, standardized crew complements, safety considerations, aircraft turn-around time, length of waiting periods, levels of backlog and hours of operation.

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Director, Air National Guard

Attachment 1

GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION

References

AFI 38-201, *Determining Manpower Requirements*

AFMAN 38-208, Volume 1, *Air Force Management Engineering Program (MEP)-Processes*

AFMAN 38-208, Volume 2, *Air Force Management Engineering Program (MEP) - Quantification Tools*

Abbreviations and Acronyms

AF — Air Force

AFI — Air Force Instruction

AFSC — Air Force Specialty Codes

ANG — Air National Guard

ANGI — Air National Guard Instruction

ANGMS — Air National Guard Manpower Standard

APU — Auxiliary Power Unit

MEP — Management Engineering Program

POD — Process Oriented Description

TCTO — Time Compliance Technical Order

UTA — Unit Training Assembly

Terms

Air National Guard Manpower Standard (ANGMS)—A numbered, specialized publication that quantifies manpower requirements for a work center. Also includes approved variances. See AFI 38-201.

Man-hour—A unit of measuring work. It is equivalent to one person working at a normal pace for 60 minutes, two people working at a normal pace for 30 minutes, or a similar combination of people working at a normal pace for a period to time equal to 60 minutes.

Manpower Standard—The basic tool used to determine the minimum level of manpower required to support a function. It is a quantitative expression that represents a work center's man-hour requirements in response to varying levels of workload.

Process Oriented Description—A format that shows work center responsibilities structured for easy measurement of work categories, tasks and subtasks.

ATTACHMENT 2

**PROCESS ORIENTED DESCRIPTION
SORTIE SUPPORT, DOCKS**

Table A2.1. Listing of Functional Process.

TASK NO.	PROCESS
1.	AIRCRAFT INSPECTION.
1.1.	PERFORMS LOOK PHASE OR SCHEDULE INSPECTION. (ISOCHRONAL) Performs aircraft phase, periodic, and isochronal inspection and corrosion control. Coordinates with others maintenance work centers.
1.1.1.	PERFORMS MAJOR INSPECTION.
1.1.2.	PERFORMS FIRST MINOR INSPECTION.
1.1.3.	PERFORMS SECOND MINOR INSPECTION.
1.1.4.	PERFORMS THIRD MINOR INSPECTION.
1.1.5.	PERFORMS HOMESTATION CHECK INSPECTION OF AIRCRAFT.
1.2.	PERFORMS SPECIAL INSPECTION. Performs maintenance required on the aircraft in accordance with applicable Time Compliance Technical Order (TCTO) and completes documentation.
2.	TIME COMPLIANCE TECHNICAL ORDER. Performs maintenance required on the aircraft in accordance with applicable TCTO. Completes documentation.
3.	FIX PHASE OF MAINTENANCE. Troubleshoots, rigs, removes and replaces, repairs system.
3.1.	PERFORMS AIRFRAME MAINTENANCE.
3.2.	PERFORMS COCKPIT AND FUSELAGE COMPARTMENT MAINTENANCE.
3.3.	PERFORMS LANDING GEAR MAINTENANCE.
3.4.	PERFORMS FLIGHT CONTROL MAINTENANCE.
3.5.	PERFORMS HOME STATION/ACROSS COUNTRY TURBO PROP POWER PLANT MAINTENANCE.
3.6.	PERFORMS MAINTENANCE ON AIR CONDITIONING, PRESSURATION, AND SURFACE ICE CONTROL SYSTEM.
3.7.	PERFORMS MAINTENANCE ON LIGHTING SYSTEM.
3.8.	PERFORMS MAINTENANCE ON HYDRAULIC AND PNEUMATIC POWER SYSTEM.
3.9.	PERFORMS MAINTENANCE ON FUEL SYSTEM.

3.10.	PERFORMS ENGINE RUN.
3.11.	PERFORMS MAINTENANCE ON OXYGEN SYSTEM.
3.12.	PERFORMS MAINTENANCE ON FIRE DETECTION AND OVERHEAT SYSTEM.
3.13.	PERFORMS EMERGENCY EQUIPMENT MAINTENANCE.
3.14.	PERFORMS MAINTENANCE OF FIRE DETECTION AND OVERHEAT SYSTEM.
3.15.	PERFORMS EMERGENCY EQUIPMENT MAINTENANCE.
3.16.	PERFORMS MAINTENANCE ON MISSION SYSTEMS EQUIPMENT.
4.	PERFORMS AIRCRAFT CLEANING TO INCLUDE AFTERWASH LUBRICATE.
5.	GROUND HANDLING, SERVICING, AND RELATED TASK. Tows, gas, handle liquid oxygen, marshals, services, oils, engine and APU runs, launch, recovery, and mooring, and replaces hydraulics oil/fluid. Fuels and services engines, hydraulic systems, drive system, landing gear, main rotor blades, and performs helicopter lubes.
6.	AIRCRAFT DOCUMENTATION PREPARATION AND MAINTENANCE. Preparation and Maintenance. Documents pre-service documentation, Red "X" entries, discrepancies, transcribes AF-IMT 781A. (Multiple Item Prescription) Submits to Plans and Scheduling.
7.	ASSISTANCE. Assists other maintenance and Fabrication functions in the performance of direct labor maintenance requirement to ensure the effective utilization of maintenance personnel.
8.	SHOP SUPPORT GENERAL CODE. Performs shop support general code.
9.	AIRCREW DEBRIEFING. Conducts and attends aircrew debriefing. Completes appropriate document.
10.	HAZARDOUS WASTE PROGRAM MANAGEMENT.
10.1.	PROCESS HAZARDOUS WASTE. Identifies, labels, contains, and disposes of hazardous waste.
10.2.	MAINTAINS ACCUMULATION POINT. Maintains hazardous waste accumulation point, satellite collection area, and container.
10.3.	MAINTAINS PROTECTIVE EQUIPMENT. Inspects and maintains protective equipment.
11.	FOREIGN OBJECT DAMAGE WALK/INSPECTION. Performs walk around the maintenance complex and runaway debris.
12.	BENCH STOCK MAINTENANCE. Inspects, orders, stocks, and issues bench

	stock.
13.	TECHNICAL DATA SUBACCOUNT MAINTENANCE. Orders required technical data, receives and posts data, and change to technical order file. Maintains file for serviceability.
14.	SPECIAL PLANNING OR SCHEDULING. Performs planning and scheduling tasks associated with preparation for UTA workload and mobility requirement.
14.1.	PREPARES FOR UTA ASSEMBLY.
14.2.	PERFORMS MOBILITY PREPARATION.
14.3.	PREPARES AND/OR PERFORMS OTHER SPECIAL PROGRAMS.
15.	CONFIGURES AND RECONFIGURES AIRCRAFT. Configures and Reconfigures aircraft to mission requirements.
16.	TRAVEL.
17.	INDIRECT. Indirect work involves those tasks that are not readily identifiable with the work center's specific product or service. The major categories of standard indirect work are: Administers Civilian, Officer, and Enlisted Personnel; Directs Work Center Activity; Provides Administrative Support; Prepares for and Conducts/Attends Meeting; Administers Training; Manages Supplies; Maintains Equipment; and Performs Cleanup.

Attachment 3

MANPOWER TABLE

Table A3.1. Standard Manpower Table.

Work Center	Air Force Specialty Title	AFSC	Manpower Requirement							
Sortie Support Docks Supvr	Aerospace Maintenance	2A5X1	2	2	2	2				
Sortie Support Docks Mech	Aerospace Maintenance	2A5X1	3	4	5	6				
Total			5	6	7	8				

Note. AFSCs may be adjusted at the discretion of the Commander.